

PCT

POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

The undersigned applicant(s) (Names should be indicated as they appear in the request):

GEORGIA TECH RESEARCH CORPORATION
505 Tenth Street, NW
Atlanta, Georgia 30332-0415
US

hereby appoints (appoint) the following person as:



agent



common representative

Name and address

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

HORSTEMEYER, Scott A.; THOMAS, George M.; KAYDEN, James W.; RISLEY, Stephen R.; KUESTER, Jeffrey R.; MCCLURE, Daniel R.; KELLEY, David P.; TEMPEL, Michael J.; RISLEY, David R.; GRESHAM, Dan R.; CULPEPPER, J. Scott; QUALEY, M. Paul Jr.; HEINZE, William F.; GRUBER, Jennifer M.; ARMENTROUT, Raymond W.; BLAHA, Robert A.; LINDER, Christopher B.; HAN, Sam S.; BRULEY, Kenneth C.; DEVEAU, Todd; HOLLAND, Jon E.; MARQUIS, Harold L.; and LEE, Cynthia J. all of the above are members of the firm of THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP, Suite 1750, 100 Galleria Parkway, NW, Atlanta, GA 30339-5948

to represent the undersigned before



all the competent International Authorities



the International Searching Authority only



the International Preliminary Examining Authority only

in connection with the international application identified below:

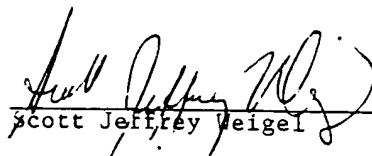
Title of the invention: Adsorbents, Methods of Preparation, and Methods of Use Thereof

Applicant's or agent's file reference: 062002-2690

International application number (if already available):

filed with the following Office UNITED STATES as receiving Office
and to make or receive payments on behalf of the undersigned.

Signature of the applicant(s) (where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power):


Scott Jeffrey Weigel

Date: July 30, 2003

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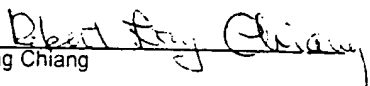
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Applicant's or agent's file reference: 062002-2690

International application number (if already available):

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Signature of the applicant(s) (where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power):


Robert Ling Chiang

Date:

July 22 2003

PCT

POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

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GEORGIA TECH RESEARCH CORPORATION
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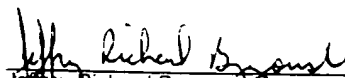
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Signature of the applicant(s) (where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power):


Jeffrey Richard Brzozowski

Date: July 22, 2003

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Signature of the applicant(s) (where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power):

Alexei V. Iretskii



Date:

07/16/2003

PCT

POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

The undersigned applicant(s) (Names should be indicated as they appear in the request):

GEORGIA TECH RESEARCH CORPORATION
505 Tenth Street, NW
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hereby appoints (appoint) the following person as:



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Signature of the applicant(s) (where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power):

Mark G. White

Mark G. White

Date: 7/16/03

Box No. VII

DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America)

The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII (i) to (v) (in general and the specific Notes to Box No. VIII (iv)). If this Box is not used, this sheet should not be included in the request.

**Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv))
for the purposes of the designation of the United States of America:**

I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.

This declaration is directed to the international application of which it forms a part (if filing declaration with application).

This declaration is directed to international application No. PCT/ (if furnishing declaration pursuant to Rule 26ter).

I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.

I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications," by application number, country or Member of the World Trade Organization, day, month and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.

Prior Applications: 60/390,050 filed 19 June 2002
60/449,689 filed 24 February 2003

I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: Mark G. White

Residence: 1548 Lake Koinonia Drive, Woodstock, GA 30189, US
(city and either US state, if applicable, or country)

Mailing Address: 1548 Lake Koinonia Drive
Woodstock, GA 30189, US

Citizenship: US

Inventor's Signature: *Mark G. White*
(if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)

Date: 7/16/03

(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)

Name: Alexei V. Iretskii

Residence: 21 Myrtle Street, Apt. 102, Atlanta, GA 30309, US
(city and either US state, if applicable, or country)

Mailing Address: 921 Myrtle Street, Apartment 102
Atlanta, Ga 30309, US

Citizenship: Russia

Inventor's Signature: *Alexei V. Iretskii*
(if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)

Date: 07/16/03

(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)



This declaration is continued on the following sheet, "Continuation of Box No. VIII (iv)".

Continuation of Box No. VIII (i) to (v) **DECLARATION**

If the space is insufficient in any of Boxes Nos. VIII (i) to (v) to furnish all the information, including in the case where more than two inventors are to be named in Box No. VIII (iv), in such case, write "Continuation of Box No. VIII..." (indicate the item number of the Box) and furnish the information in the same manner as required for the purposes of the Box in which the space was insufficient. If additional space is needed in respect of two or more declarations, a separate continuation box must be used for each such declaration. If this Box is not used, this sheet should not be included in the request.

Continuation of Box No. VIII (iv) Declaration of Inventorship (only for the purpose of the designation of the United States of America)

Name: Scott Jeffrey
Jeffrey Scott Weigel

Residence: 246 Elm Road, Allentown, PA 18104, US

Mailing Address: 246 Elm Road, Allentown, PA 18104, US

Citizenship: US

Inventor's Signature: Scott Jeffrey Weigel

Date: July 31, 2002

Name: Robert Ling Chiang

Residence: 11 Governor Drive, Basking Ridge, NJ 07920, US

Mailing Address: 11 Governor Drive, Basking Ridge, NJ 07920, US

Citizenship: US

Inventor's Signature: Robert Ling Chiang

Date: July 22, 2003

Name: Jeffrey Richard Brzozowski

Residence: RR1 Box 1764B, Kunkletown, PA 18058, US

Mailing Address: RR1 Box 1764B, Kunkletown, PA 18058, US

Citizenship: US

Inventor's Signature: Jeffrey Richard Brzozowski

Date: July 22, 2003